RAW SEQUENCE LISTING   DATE: 11/15/2002
PATENT APPLICATION: US/09/485,071   TIME: 09:32:56

Input Set : **A:\SEQLIST.txt**
Output Set: **N:\CRF4\11152002\I485071.raw**

SEQUENCE LISTING
C--> 5 **(1) GENERAL INFORMATION:**
7   (i) APPLICANT: Reich, Norbert O.
8   Flynn, James
C--> 10   (ii) **TITLE OF INVENTION: MODULATORS OF DNA CYTOSINE-5**
11   METHYLTRANSFERASE AND METHODS FOR USE THEREOF
13   (iii) NUMBER OF SEQUENCES: 110
15   (iv) CORRESPONDENCE ADDRESS:
16   (A) ADDRESSEE: Merchant, Gould, Smith, Edell, Welter & Schmidt
17   (B) STREET: 11150 Santa Monica Boulevard, Suite 400
18   (C) CITY: Los Angeles
19   (D) STATE: CA
20   (E) COUNTRY: USA
21   (F) ZIP: 90025
23   (v) COMPUTER READABLE FORM:
24   (A) MEDIUM TYPE: Diskette
25   (B) COMPUTER: IBM Compatible
26   (C) OPERATING SYSTEM: DOS
27   (D) SOFTWARE: FastSEQ for Windows Version 2.0
29   (vi) CURRENT APPLICATION DATA:
C--> 30   **(A) APPLICATION NUMBER: US/09/485,071**
C--> 31   **(B) FILING DATE: 12-Jun-1998**
32   (C) CLASSIFICATION:
34   (vii) PRIOR APPLICATION DATA:
35   (A) APPLICATION NUMBER: 60/057,411
36   (B) FILING DATE: 29-AUG-1997
38   (viii) ATTORNEY/AGENT INFORMATION:
39   (A) NAME: Canady, Karen S
40   (B) REGISTRATION NUMBER: 39,927
41   (C) REFERENCE/DOCKET NUMBER: 30794.30WO01
43   (ix) TELECOMMUNICATION INFORMATION:
44   (A) TELEPHONE: 310 445-1140
45   (B) TELEFAX: 310 445-9031
46   (C) TELEX:
48 (2) INFORMATION FOR SEQ ID NO: 1:
50   (i) SEQUENCE CHARACTERISTICS:
51   (A) LENGTH: 26 base pairs
52   (B) TYPE: nucleic acid
53   (C) STRANDEDNESS: double
54   (D) TOPOLOGY: linear
56   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
58 GGGGGGGRRK KGCGKGGKGK KGKKGG   26
60 (2) INFORMATION FOR SEQ ID NO: 2:

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```
62       (i) SEQUENCE CHARACTERISTICS:
63              (A) LENGTH: 26 base pairs
64              (B) TYPE: nucleic acid
65              (C) STRANDEDNESS: double
66              (D) TOPOLOGY: linear
69      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
71  KGGRKKRDDD KRCGKRRDKK KKKKKG                                      26
73 (2) INFORMATION FOR SEQ ID NO: 3:
75       (i) SEQUENCE CHARACTERISTICS:
76              (A) LENGTH: 10 base pairs
77              (B) TYPE: nucleic acid
78              (C) STRANDEDNESS: double
79              (D) TOPOLOGY: linear
82      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
84  GGGGCGGGGC                                                        10
86 (2) INFORMATION FOR SEQ ID NO: 4:
88       (i) SEQUENCE CHARACTERISTICS:
89              (A) LENGTH: 10 base pairs
90              (B) TYPE: nucleic acid
91              (C) STRANDEDNESS: double
92              (D) TOPOLOGY: linear
95      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
97  CCAACGTTGG                                                        10
99 (2) INFORMATION FOR SEQ ID NO: 5:
101      (i) SEQUENCE CHARACTERISTICS:
102             (A) LENGTH: 10 base pairs
103             (B) TYPE: nucleic acid
104             (C) STRANDEDNESS: double
105             (D) TOPOLOGY: linear
108     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
110  CCAAGATTGG                                                       10
112 (2) INFORMATION FOR SEQ ID NO: 6:
114      (i) SEQUENCE CHARACTERISTICS:
115             (A) LENGTH: 10 base pairs
116             (B) TYPE: nucleic acid
117             (C) STRANDEDNESS: double
118             (D) TOPOLOGY: linear
121     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
123  CGATCGATCG                                                       10
125 (2) INFORMATION FOR SEQ ID NO: 7:
127      (i) SEQUENCE CHARACTERISTICS:
128             (A) LENGTH: 10 base pairs
129             (B) TYPE: nucleic acid
130             (C) STRANDEDNESS: double
131             (D) TOPOLOGY: linear
134     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
136  CCAACGTTGG                                                       10
138 (2) INFORMATION FOR SEQ ID NO: 8:
140      (i) SEQUENCE CHARACTERISTICS:
```

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PATENT APPLICATION: US/09/485,071   TIME: 09:32:56

Input Set : **A:\SEQLIST.txt**
Output Set: **N:\CRF4\11152002\I485071.raw**

```
141              (A) LENGTH: 12 base pairs
142              (B) TYPE: nucleic acid
143              (C) STRANDEDNESS: double
144              (D) TOPOLOGY: linear
147          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
149   CCGTACGTAC GG                                               12
151  (2) INFORMATION FOR SEQ ID NO: 9:
153           (i) SEQUENCE CHARACTERISTICS:
154              (A) LENGTH: 30 base pairs
155              (B) TYPE: nucleic acid
156              (C) STRANDEDNESS: double
157              (D) TOPOLOGY: linear
160          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
162   GGGAATTCAA GGGGCGGGGC AAGGATCCAG                            30
164  (2) INFORMATION FOR SEQ ID NO: 10:
166           (i) SEQUENCE CHARACTERISTICS:
167              (A) LENGTH: 30 base pairs
168              (B) TYPE: nucleic acid
169              (C) STRANDEDNESS: double
170              (D) TOPOLOGY: linear
173          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
175   CTGGATCCTT GCCCCGCCCC TTGAATTCCC                            30
177  (2) INFORMATION FOR SEQ ID NO: 11:
179           (i) SEQUENCE CHARACTERISTICS:
180              (A) LENGTH: 30 base pairs
181              (B) TYPE: nucleic acid
182              (C) STRANDEDNESS: double
183              (D) TOPOLOGY: linear
186          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
188   GGGAATTCAA ATGACGTCAA AAGGATCCAG                            30
190  (2) INFORMATION FOR SEQ ID NO: 12:
192           (i) SEQUENCE CHARACTERISTICS:
193              (A) LENGTH: 30 base pairs
194              (B) TYPE: nucleic acid
195              (C) STRANDEDNESS: double
196              (D) TOPOLOGY: linear
199          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
201   CTGGATCCTT TTGACGTCAT TTGAATTCCC                            30
203  (2) INFORMATION FOR SEQ ID NO: 13:
205           (i) SEQUENCE CHARACTERISTICS:
206              (A) LENGTH: 50 base pairs
207              (B) TYPE: nucleic acid
208              (C) STRANDEDNESS: double
209              (D) TOPOLOGY: linear
212          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
214   CCTACCCACC CTGGATCCTT GCCCCGCCCC TTGAATTCCC AACCCTCCAC      50
216  (2) INFORMATION FOR SEQ ID NO: 14:
218           (i) SEQUENCE CHARACTERISTICS:
219              (A) LENGTH: 22 base pairs
```

RAW SEQUENCE LISTING   DATE: 11/15/2002
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Input Set : A:\SEQLIST.txt
Output Set: N:\CRF4\11152002\I485071.raw

```
220           (B) TYPE: nucleic acid
221           (C) STRANDEDNESS: double
222           (D) TOPOLOGY: linear
225      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
227  ATCCTTGCCC CGCCCCTTGA AT                                        22
229  (2) INFORMATION FOR SEQ ID NO: 15:
231       (i) SEQUENCE CHARACTERISTICS:
232           (A) LENGTH: 14 base pairs
233           (B) TYPE: nucleic acid
234           (C) STRANDEDNESS: double
235           (D) TOPOLOGY: linear
238      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
240  TTGCCCCGCC CCTT                                                 14
242  (2) INFORMATION FOR SEQ ID NO: 16:
244       (i) SEQUENCE CHARACTERISTICS:
245           (A) LENGTH: 66 base pairs
246           (B) TYPE: nucleic acid
247           (C) STRANDEDNESS: double
248           (D) TOPOLOGY: linear
251      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
253  GGGAATTCAT GGATCCTAAA NNNNNNNNNN NNCGNNNNNN NNNNNNTTTC AAGCTTGTGA   60
254  ATTCCC                                                          66
256  (2) INFORMATION FOR SEQ ID NO: 17:
258       (i) SEQUENCE CHARACTERISTICS:
259           (A) LENGTH: 66 base pairs
260           (B) TYPE: nucleic acid
261           (C) STRANDEDNESS: double
262           (D) TOPOLOGY: linear
265      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
267  CCCTTAAGTA CCTAGGATTT NNNNNNNNNN NNGCNNNNNN NNNNNNAAAG TTCGAACACT   60
268  TAAGGG                                                          66
270  (2) INFORMATION FOR SEQ ID NO: 18:
272       (i) SEQUENCE CHARACTERISTICS:
273           (A) LENGTH: 26 base pairs
274           (B) TYPE: nucleic acid
275           (C) STRANDEDNESS: double
276           (D) TOPOLOGY: linear
279      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
281  GTGGGATGGG AACGAGTTGA GGAGGG                                     26
283  (2) INFORMATION FOR SEQ ID NO: 19:
285       (i) SEQUENCE CHARACTERISTICS:
286           (A) LENGTH: 26 base pairs
287           (B) TYPE: nucleic acid
288           (C) STRANDEDNESS: double
289           (D) TOPOLOGY: linear
292      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
294  AGTGGTATGT ATCGATTATA GTTGGG                                     26
296  (2) INFORMATION FOR SEQ ID NO: 20:
298       (i) SEQUENCE CHARACTERISTICS:
```

RAW SEQUENCE LISTING   DATE: 11/15/2002
PATENT APPLICATION: US/09/485,071   TIME: ˉ09:32:56

Input Set : A:\SEQLIST.txt
Output Set: N:\CRF4\11152002\I485071.raw

```
299            (A) LENGTH: .26 base pairs
300            (B) TYPE: nucleic acid
301            (C) STRANDEDNESS: double
302            (D) TOPOLOGY: linear
305       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
307  GGAGGAAGTT TACGTATGGT ATGGGG                              26
309 (2) INFORMATION FOR SEQ ID NO: 21:
311       (i) SEQUENCE CHARACTERISTICS:
312            (A) LENGTH: 26 base pairs
313            (B) TYPE: nucleic acid
314            (C) STRANDEDNESS: double
315            (D) TOPOLOGY: linear
318       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
320  TGGGAGGGGA TTCGAGGTGA GAGTTG                              26
322 (2) INFORMATION FOR SEQ ID NO: 22:
324       (i) SEQUENCE CHARACTERISTICS:
325            (A) LENGTH: 26 base pairs
326            (B) TYPE: nucleic acid
327            (C) STRANDEDNESS: double
328            (D) TOPOLOGY: linear
331       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
333  ATAAAGTATT AGCGTAAGAG ATGAAG                              26
335 (2) INFORMATION FOR SEQ ID NO: 23:
337       (i) SEQUENCE CHARACTERISTICS:
338            (A) LENGTH: 26 base pairs
339            (B) TYPE: nucleic acid
340            (C) STRANDEDNESS: double
341            (D) TOPOLOGY: linear
344       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:
346  TGGAGGAGTT TACGGTGTAA TTGTTT                              26
348 (2) INFORMATION FOR SEQ ID NO: 24:
350       (i) SEQUENCE CHARACTERISTICS:
351            (A) LENGTH: 26 base pairs
352            (B) TYPE: nucleic acid
353            (C) STRANDEDNESS: double
354            (D) TOPOLOGY: linear
357       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:
359  GGAGTAGGTA GACGTTAAGT ATGATG                              26
361 (2) INFORMATION FOR SEQ ID NO: 25:
363       (i) SEQUENCE CHARACTERISTICS:
364            (A) LENGTH: 26 base pairs
365            (B) TYPE: nucleic acid
366            (C) STRANDEDNESS: double
367            (D) TOPOLOGY: linear
370       (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:
372  GTGGGAAGGG GACGAATTTG AAGGTG                              26
374 (2) INFORMATION FOR SEQ ID NO: 26:
376       (i) SEQUENCE CHARACTERISTICS:
377            (A) LENGTH: 26 base pairs
```

VERIFICATION SUMMARY   DATE: 11/15/2002
PATENT APPLICATION: **US/09/485,071**   TIME: 09:32:57

Input Set : **A:\SEQLIST.txt**
Output Set: **N:\CRF4\11152002\I485071.raw**

L:5 M:220 C: Keyword misspelled or invalid format, [(1) GENERAL INFORMATION:]
L:10 M:220 C: Keyword misspelled or invalid format, [(ii) TITLE OF INVENTION:]
L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:1481 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:110